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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,783	12/31/2001	Bhashyam Ramesh	10239	4098
26890	7590 04/21/2004	, .	EXAM	INER
JAMES M.	STOVER	ROBINSON, GRETA LEE		
NCR CORPORATION 1700 SOUTH PATTERSON BLVD, WHQ4			ART UNIT	PAPER NUMBER
DAYTON,			2177	6
			DATE MAILED: 04/21/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u></u>	PRG		
ز		Application N	Applicant(s)		
•		10/038,783	RAMESH, BHASHYAM		
Office Action	on Summary	Examiner	Art Unit		
		Greta L. Robinson	2177		
The MAILING DA	ATE of this communication app	pears on the cover sheet with the c	orrespondence address		
THE MAILING DATE C - Extensions of time may be avaiter SIX (6) MONTHS from the lifthe period for reply specified. - If NO period for reply is specified. - Failure to reply within the set	OF THIS COMMUNICATION. ailable under the provisions of 37 CFR 1.1 re mailing date of this communication. If above is less than thirty (30) days, a repliced above, the maximum statutory period for extended period for reply will, by statute ce later than three months after the mailing	Y IS SET TO EXPIRE 3 MONTH(36(a). In no event, however, may a reply be time by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from by cause the application to become ABANDONE by date of this communication, even if timely filed	nety filed s will be considered timely. the mailing date of this communication. (D (35 U.S.C. § 133).		
Status					
1) Responsive to co	ommunication(s) filed on 31 D	<u>ecember 2001</u> .			
2a) ☐ This action is FIN	IAL. 2b)⊠ This	action is non-final.			
3) Since this application)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accorda	ance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.		
Disposition of Claims					
4) Claim(s) <u>1-42</u> is/s	are pending in the application				
	claim(s) is/are withdra				
5)	s/are allowed.				
6)⊠ Claim(s) <u>1-42</u> is/s	are rejected.				
7) Claim(s) i	s/are objected to.				
8) Claim(s) a	are subject to restriction and/o	r election requirement.			
Application Papers					
9) The specification	is objected to by the Examine	er.			
· <u></u>	·	ıre: a)∏ accepted or b)⊠ object	ted to by the Examiner.		
		drawing(s) be held in abeyance. See			
•		tion is required if the drawing(s) is ob			
		caminer. Note the attached Office			
Priority under 35 U.S.C. §	§ 119				
_		priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) ☐ All b) ☐ Som		, , , , , , , , , , , , , , , , , , ,	, (=, =, (·)·		
	opies of the priority document	s have been received			
<u> </u>		s have been received in Applicati	ion No		
		rity documents have been receive			
·	from the International Bureau	•	ya iii ama wallona. Gaage		
		of the certified copies not receive	ed.		
		·			
Attachment(s)					
1) Notice of References Cited	I (PTO-892)	4) Interview Summary	(PTO-413)		
2) D Notice of Draftsperson's Pa	atent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate		
Information Disclosure Sta Paper No(s)/Mail Date	tement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)		
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DETAILED ACTION

1. Claims 1-42 are pending in the present application.

Drawings

- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "102, 106, 110, 112, 114, 16, 118" has been used to designate multiple elements in the same view note figure 1. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to because figures 3, 5, 6 and 7 contain partial views Note 37 CFR 1.84. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

4. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use



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thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given. (Note the abstract should not reiterate the claims.)

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 1-42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the hash" in line 3. There is insufficient antecedent basis for this limitation in the claim. The examiner suggests changing "the" to "a" for proper antecedent basis. Independent claims 12, 23, 41 and 42 parallel claim 1; therefore they are rejected for similar reasons [note: claim 12 line 4; claim 23 line 14; claim 41 line 3; and claim 42 line 3]. Claims 2-11, 13-22 and 24-40 are rejected based on dependency.



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Allowable Subject Matter

7. Claims 1-42 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Liu et al. US Patent 6,397,204 B1

Bhashyam et al. US Patent 6,618,729 B1

Chen et al. US patent 6,446,063 B1

Lindsay et al. US patent 6,105,020

Kashyap et al. US patent 5,873,074

Waddington et al. US Patent 6,684,203 B1

Shum Parallel Implementations of Exclusion Joins

Toyama et al. Hash-Based Symmetric Data Structure and Join Algorithm for OLAP Applications

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greta L. Robinson whose telephone number is (703) 308-7565. The examiner can normally be reached on Mon.-Fri. 9:30AM-6:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (703) 305-9790. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GRETA ROBINSON PRIMARY EXAMINER

Greta Robinson Primary Examiner April 16, 2004